

Title (en)

Method for presetting cold-forming installations

Title (de)

Verfahren zum Voreinstellen von Kaltverformungsanlagen

Title (fr)

Procédé pour préréglage d'installations de formage à froid

Publication

EP 0972580 A3 20021211 (DE)

Application

EP 99110703 A 19990602

Priority

DE 19831480 A 19980714

Abstract (en)

[origin: EP0972580A2] The hardness of the product is measured shortly before its formation, and the result is used for correction of its hardening curve and the presetting of the cold-forming installation.

IPC 1-7

B21B 37/58

IPC 8 full level

B21B 1/22 (2006.01); **B21B 37/58** (2006.01); **B21D 1/00** (2006.01); **B21B 1/28** (2006.01); **B21B 1/36** (2006.01); **B21B 38/10** (2006.01)

CPC (source: EP US)

B21B 37/58 (2013.01 - EP US); **B21B 1/28** (2013.01 - EP US); **B21B 1/36** (2013.01 - EP US); **B21B 38/105** (2013.01 - EP US); **B21B 2001/228** (2013.01 - EP US); **B21B 2265/12** (2013.01 - EP US)

Citation (search report)

- [X] EP 0102937 A1 19840314 - VOEST ALPINE AG [AT]
- [A] EP 0436762 A1 19910717 - BWG BERGWERK WALZWERK [DE]
- [A] DE 4015750 A1 19901122 - KOETHEMANN KARL HEINZ DR ING [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 122 (M - 476) 7 May 1986 (1986-05-07)

Cited by

WO2010112196A1; DE102009060828A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

US 6161406 A 20001219; AT E301510 T1 20050815; CA 2277550 A1 20000114; CA 2277550 C 20070925; DE 19831480 C1 20000113; DE 59912379 D1 20050915; EP 0972580 A2 20000119; EP 0972580 A3 20021211; EP 0972580 B1 20050810; ES 2245061 T3 20051216; JP 2000042602 A 20000215; JP 4390917 B2 20091224

DOCDB simple family (application)

US 34963399 A 19990708; AT 99110703 T 19990602; CA 2277550 A 19990709; DE 19831480 A 19980714; DE 59912379 T 19990602; EP 99110703 A 19990602; ES 99110703 T 19990602; JP 19475899 A 19990708